



C A R A 1175

Date : 07th December 2022

ANNEXURE - I

| Rule No. | Sub Rule(s) | Description | Standard |
|--|---------------|--|---|
| 114 | (1) | Exhaust gases | GSR 240(E) dt. 31.03.2021 |
| | (2) | Location of exhaust pipes | |
| 115-B | BB (II) & (D) | Mass Emission Standards for LNG vehicles (For in-use Diesel Vehicle converted to LNG) | GSR 84 (E) dt. 09.02.2009 & GSR 1151(E) dt. 29.11.2018 & Part XV of MoRTH/CMVR/TAP-115/116 |
| | BB (II) | Electromagnetic compatibility (EMC) | AIS-004 (Part 3)-2009 |
| 115-B | (E) | LNG Safety Checks for LNG Kit Components and Installation on the vehicle | As per AIS 024 Rev1 & 028 Rev1 and respective standards referred in the Notification No.GSR 643(E) dt. 27.06.17, GSR 490(E)dt.24.05.18 & Gas Cylinder Rules, 2016 |
| 124 | (4) Sl. No. 5 | The procedure for Type Approval and establishing Conformity of production for components – LNG Regulator Model No. PCMB1010P55F1500-A16/A Report No. CT0GR 9240 dt. 13.09.2022 | GSR 784(E) dt. 12.11.2008 |
| Mass Emission Test, Engine Performance, Gradeability, Cooling Performance, and Fuel Consumption Test. (Ref: GSR 589(E) dt. 16-09-2005 , GSR No. 853(E) dt. 19-11-2001& GSR 84 (E) dt. 09.02.2009) | | | Meets the requirement of sub clauses (i),(ii),(iii),(v) & (vii) |

ANNEXURE - II

| Standards | Notification | Date | Effective From | Applicable CMVR |
|---|--------------|------------|----------------|-----------------|
| Safety Checks for use of LNG Fuels in internal combustion engines (as per AIS 024 & 028(Rev.1) (Part A)) and Gas Cylinder Rules, 2016 | GSR 643(E) | 27.06.2017 | 27.06.2017 | 115-B (E) |
| | GSR 490(E) | 24.05.2018 | 01.10.2018 | |

Compliance of Mass Emission Standards & Validity

LNG converted "In-use " diesel vehicle "TATA 4023.S 4x2" (February 2014 make) with 6ISBe 230 30 engine, fitted with catalytic convertor as a part of LNG kit, meets the Bharat Stage – IV norms, Same kit can be fitted on the vehicle model/variants fitted with the same capacity engine manufactured/registered from 1st January 2014 to 31st March 2020, subject to specific approval, for layout plan by ICAT, for retrofitment of LNG kit.

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| ICAT Ref No. | 2022-0776.; IOCS No. 159573 |
| Emission Report No. | C T O E R 0479 dt. 29.11.2022 (Spark Plug-BOSCH (YR7DC), Catcon-TTWV Catalytic Converter Co., Ltd. China (5263133), ECU-M/s.Omnitek Engineering Corp. USA (ECM66AATA), Gas Injector- M/s.Omnitek Engineering Corp. (IG-6) |

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| AUTHORISED SIGNATORY | | | |
| VIJAYANTA AHUJA DEPUTY GENERAL MANAGER | SAURABH DALELA DIRECTOR | | |
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